PENDING CLAIMS AS AMENDED

1. – 31. (Canceled)

32. (Previously Amended) A method for optimizing a network's configuration, comprising the steps of:

collecting pilot strength measurements for each base station including in said network;

saving said pilot strength measurements in a base station, wherein said pilot strength measurements are saved regardless of the measurement value;

requesting a majority of said saved pilot strength measurements from said database;

compiling said pilot strength measurements for said each base station;

saving compiled pilot strength measurement in a database; and

modifying the transmission characteristics of said each base station in accordance with said compiled pilot strength measurements.

33. (Previously Presented) The method in accordance with claim 32, further comprising the step of using said compiled pilot strength measurements to simulate a cellular network.

34. (Previously Presented) The method in accordance with claim 32, wherein compiling said pilot strength measurements comprises the steps of:

determining an average energy for said pilot strength measurements for said each base station;

determining a maximum energy for a one of said pilot strength measurements for said each base station; and

determining a minimum energy for a one of said pilot strength measurements for said each base station.

35. (Previously Presented) The method in accordance with claim 34, further comprising the steps of:

analyzing the data compiled for said each base station to determine if said data indicates that a reliable communication between a mobile station and said each base station may be maintained;

if a reliable communication with said mobile station cannot be maintained by at least one of said each base station, then:

determining if said at least one of said each base station is in a neighbor list of said mobile station; and

communicating to said mobile station to remove said at least one of said each base station from said neighbor list.

36. (Previously Presented) The method in accordance with claim 32, further comprising modifying the transmission characteristics of at least one of said each base station by changing the location of said at least one of said each base station.

37. (Previously Presented) The method in accordance with claim 32, further comprising modifying the transmission characteristics of at least one of said each base station by adjusting the spatial characteristics of an antenna used to transmit a signal from said at least one of said each base station.

38. (Cancel)

39. (Previously Amended) An apparatus for optimizing a wireless communication network's configuration, comprising:

means for collecting pilot strength measurements for each base station included in the network;

means for saving the pilot strength measurements to a database, wherein the pilot strength measurements are saved regardless of the measurement value;

a means for requesting a majority of the saved pilot strength measurements form the database;

a means for compiling the pilot strength measurements for each base station; and

a means for modifying the transmission characteristics of each base station in accordance with the compiled pilot strength measurements.

40. (Previously Presented) The apparatus in accordance with claim 39, wherein the means for compiling the pilot strength measurements further comprises:

means for determining an average energy for the pilot strength measurements for said each base station, a maximum energy for a one of the pilot strength measurements for each base station, and a minimum energy for a one of the pilot strength measurements for each base station.

41. (Previously Presented) The apparatus in accordance with claim 40, wherein the means for compiling the pilot strength measurements further comprises:

means for analyzing the data compiled for each station to determine if the data indicates that a reliable communication between a mobile station and each base station may be maintained;

if reliable communication with mobile station cannot be maintained by at least one of the each base station, then determining if the at least one of the each base station is in a neighbor list of the mobile station.

42. (Previously Presented) The apparatus in accordance with claim 41, further comprising:

a means for communicating to said mobile station to remove the at least one of the each base station from the neighbor list.

43. (Previously Presented) The apparatus in accordance with claim 42, further comprising a means for modifying the transmission characteristics of at least one of said each base station by adjusting the spatial characteristics of an antenna used to transmit a signal from the at least one of the base station.

44. (Cancel)

45. (Previously Presented) An apparatus for optimizing a wireless communication network's configuration, comprising:

a signal processing device for collecting pilot strength measurements for each base station included in the network;

a storage device communicatively connected to the signal processing device and used to save the pilot strength measurements, wherein the pilot strength measurements are saved regardless of the measurement value;

wherein the signal processing device can request a majority of the saved pilot strength measurements from the database when desired, compile the pilot strength measurements for each base station, and cooperate in modifying the transmission characteristics of each base station in accordance with the compiled pilot strength measurements.

46. (Previously Presented) The apparatus in accordance with claim 45, wherein the signal processing device further determines an average energy for the pilot strength measurements for each base station, a maximum energy for a one of the pilot strength measurements for each base station, and a minimum energy for a one of the pilot strength measurements for each base station.

47. (Previously Presented) The apparatus in accordance with claim 46, wherein the signal processing device analyzes the data compiled for each base station to determine if the data indicates that a reliable communication between a mobile station and each base station may be maintained,

and if a reliable communication with mobile station cannot be maintained by at least one of the each base station,

then determining if the at least one of the each base station is in a neighbor list of the mobile station.

48 (Previously Presented) The apparatus in accordance with claim 47, further comprising a transmitter coupled to the signal processing device and used to communicate to the mobile station a command to remove the at least one of the each base station from the neighbor list.

49. (Previously Presented) The apparatus in accordance with claim 48, further comprising:

an antenna coupled to the transmitter and used to transmit a signal from the at least one of the base stations, wherein the transmission characteristics of the at least one of the base stations is adjusted by changing the spatial characteristics of the antennas.

50. – 53. (Cancel)

REQUEST FOR ALLOWANCE

The previously argued elements and the foregoing describes the novel and unobvious features of the invention in contrast to the cited references sufficient to place the claims into condition for allowance. Applicant respectfully requests consideration for allowance. Please charge any fee requirement or credit any overpayment to Deposit Account No. 17-0026

Respectfully submitted,

Dated: May 10, 2005 By:

William Marcus Hooks
Agent for Applicant
Registration No. 48,857

QUALCOMM Incorporated
5775 Morehouse Blvd.
San Diego, California 92121
Telephone: (858) 658-5703
Facsimile: (858) 658-2503